105.2 - Serum and Plasma Materials (frozen, liquid, and lyophilized forms)

These SRMs serve a variety of clinical measurement needs. SRM 909c is a frozen human serum for use in determining specified constituents. SRM 927d is a bovine serum albumin in a sterile 7% solution for use in the calibration and standardization of procedures to analyze total serum protein. SRM 956c is a frozen human serum for use in the calibration and standardization of procedures for the determination of specific electrolytes in either diluted or undiluted human serum or plasma. SRM 965b is a frozen human serum for evaluating the accuracy of procedures used to determine glucose in human serum and to validate secondary reference materials. SRM 967a is a frozen human serum for evaluating the accuracy of procedures for the determination of creatinine in human serum. SRM 968d is a lyophilized human serum for validating methods used to determine fat-soluble vitamins, carotenoids, and cholesterol in human serum and plasma. SRM 970 is a frozen human serum for validating methods for determining ascorbic acid in human serum and similar matrices. SRM 971 is a hormone in frozen human serum for evaluating the accuracy of procedures for the determination of the steroid hormones cortisol and progesterone in human serum. SRM 1951a is a frozen human serum for evaluating the accuracy of clinical procedures for the determination of total cholesterol, HDL-cholesterol, LDL-cholesterol and triglycerides (triglyerides and total glyceride species).SRM 972 is a frozen human serum for evaluating vitamin D metabolites. SRM 1951b is a frozen human serum for evaluating the accuracy of clinical procedures for the determination of total cholesterol. SRM 1589a is a freeze-dried human serum for evaluating PCB congeners, chlorinated pesticides and total cholesterol in human serum and similar matrices. SRMs 1957 and 1958 are freeze-dried human serums for evaluating PCB congeners, chlorinated pesticides, and PBDE congeners with non-certified values for PFCs and dioxins/furans. SRM 2921 is a human cardiac troponin complex. SRM 2921 is primarily intended for use in calibrating clinical procedures and devices for the determination of cardiac troponin I (cTnI) in human serum. It can also be used for value-assignment of calibrators and control materials.

For further information see: SP 260-83

PLEASE NOTE: The tables are presented to facilitate comparisons among a family of materials to help customers select the best SRM for their needs. For specific values and uncertainties, the certificate is the only official source.

SRM	909c	927d	956c	965b	967a	968e	970	971	972	1950	1951b	1952a
Description	Human Serum	Bovine Serum Albumin (7% solution)	Electrolytes in Frozen Human Serum	Glucose in Frozen Human Serum	Creatinine in Frozen Human Serum	Fat-Sol Vitamins, Carotenoids, and Cholesterol in Human Serum	Ascorbic Acid in Frozen Human Serum	Hormones in Frozen Human Serum	Vitamin D in Human Serum	Metabolites in Human Plasma	Lipids in Frozen Human Serum	Cholesterol in Human Serum
Unit Size	(3 bottles x 2 mL each)	(set (10))	(6 x 2.0 mL)	(set (8) (2 each conc))	(set(4) (2 each conc))	(set (3) (1 each conc.))	(set (4) (2 each conc))	(2 x 5 mL)	(set (4) (1 each level))	(5 vials @ 1.0 mL each)	(set (4) (2 each conc))	(set (6) (2 each conc))
α-Carotene-Total						X				X		
α-Tocopherol						3 levels				X		
γ-Tocopherol						3 levels				X		
β-cryptoxanthin-total			X			3 levels						
Calcium Ionized			X									
5-Methyltetra-hydrofolic Acid										X		
Albumin		X										
Amino Acids										X		
Ascorbic Acid							2 levels					
Bilirubin										*X*		
Cardiac troponin C (cTnC)												
Cardiac troponin I (cTnI)												
Cardiac troponin T (cTnT)												
Chlorine Cl			X									
Cholesterol	X					3 levels				X	2 levels	3 levels
Cis-B-Carotene										*X*		
Coenzyme Q_{10}						(3 levels)						
Cortisol								2 levels		X		
Creatinine	X				2 levels					X		
Dioxins/Furans												
Drugs of Abuse												
Elements (Selected)	X	3 levels								X		
Fatty Acids										X		
Folic Acid										*X*		
Glucose	X			4 levels						X		
Glycerides-Total	X									X	2 levels	
HDL-Cholesterol											*2 levels*	
Homocysteine										X		
LDL-Cholesterol											*2 levels*	
Lutein-Total						3 levels				X		
Lycopene-Total						*3 levels*				*X*		
Perflourinated compounds (PFCs)										*X*		
Pesticides												
Polybrominated diphenyl ethers (PBDEs)												
Polychlorinated biphenyl (PCB) Congeners												
Progesterone								2 levels		X		
Prox, Protein	*X*	*X*								*X*		
Pyridoxal 5'-phosphate										X		
Retinol-Total						3 levels				X		
Retinyl palmitate										*X*		
Retinyl Stearate										*X*		
Selenium Species										*X*		
Testosterone								2 levels		X		
Total B-Cryptoxantin										X		
trans-β-Carotene						3 levels				*X*		
trans-Lycopene						*3 levels*				*X*		
Triglycerides											2 levels	
Urea	X									X		
Uric Acid	X									X		
Vitamin D									4 levels			
Vitamin, 25-hydroxyvitamin D2										*X*		
Vitamin, 25-hydroxyvitamin D3						3 levels				X		
Vitamin, 3-epi-25-hydroxyvitamin D3												
Zeaxanthin-total						3 levels				X		

Certified values are normal font.
Reference values are italicized.
Values in parentheses are for information only.

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1955	1957	1958	1959	2921	3950
Homocysteine and Folate in Frozen Human Serum	**Organic Contaminants in Non-Fortified Human Serum**	**Organic Contaminants in Fortified Human Serum**	**Drugs of Abuse in Frozen Human Serum**	**Human Cardiac Troponin Complex**	**Vitamin B6 in Frozen Human Serum**
(set (3) (1 each conc))	**(5 vials x 10 mL)**	**(5 vials x 10 mL)**	**(2 vials x 5 mL)**	**(5x115 uL)**	**(2 vials, 1 level each)**
3 levels					
				X	
				X	
				X	
	X	X			
			X		
3 levels					
3 levels					
	X	*X*			
	X	X			
	X	X			
	X	X			
					2 levels

Certified values are normal font.
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